

Appl. No. 10/086,758  
Amdt. dated July 30, 2004  
Reply to Office Action of February 18, 2004

### Amendments to the Claims

This listing of claims will replace all prior versions, and listing of claims in the application:

### Listing of Claims

1. (Previously Presented) A zeolite bound zeolite catalyst which does not contain significant amounts of non-zeolitic binder and comprises:

- (a) first crystals of a large pore size first zeolite selected from the group consisting of EMT, MEI, and MOR, and

- (b) a binder comprising second crystals of a second zeolite,

wherein said first crystals of said first zeolite have an average particle size of from 1 to 6 microns and the external surface acidity of said first crystals of said first zeolite is less than the acidity within the channels of said first zeolite.

2. (Original) The catalyst recited in Claim 1, wherein said second crystals are intergrown and form at least a partial coating on said first crystals.
3. (Currently Amended) The catalyst recited in Claim 2, wherein ~~said first crystals of said first zeolite have an average particle size greater than about 0.1 micron and~~ said second crystals of said second zeolite have an average particle size that is less than said first crystals of said first zeolite.
4. (Original) The catalyst recited in Claim 3, wherein said catalyst is prepared from a silica bound extrudate comprising said first crystals of said first zeolite by converting the silica in said extrudate to said second zeolite.
5. (Original) The catalyst recited in Claim 3, wherein the structure type of said first zeolite and said second zeolite are the same.

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6. (Original) The catalyst recited in Claim 5, wherein said first zeolite is an aluminosilicate zeolite or a gallium silicate zeolite.
7. (Original) The catalyst recited in Claim 6, wherein said first zeolite and said second zeolite has a MOR structure.
8. (Currently Amended) The catalyst recited in Claim 7, wherein ~~the average particle size of the crystals of said first zeolite is from about 1 to about 6 microns and~~ the average particle size of the crystals of said second zeolite is from about 0.1 to about 0.5 microns.
9. (Original) The catalyst recited in Claim 8, wherein said zeolite bound zeolite catalyst contains less than 5% by weight of non-zeolitic binder based on weight of said first zeolite and said second zeolite.
10. (Original) The catalyst recited in Claim 9, wherein said second crystals are resistant to attrition.
- 11-61 (Cancelled)
62. (Previously Presented) The catalyst recited in Claim 1, wherein said first crystals of said first zeolite have an average particle size of from 1 to 6 microns and the external surface acidity of said first crystals of said first zeolite is at least 50% less than the acidity within the channels of said first zeolite.